SCHEDULES

GEOTHERMAL HEAT PUMP CHILLER SCHEDULE EVAPORATOR/ CHILLER CONDENSER/ HEATER
 NOMINAL CAPACITY (TONS)
 EWT (°F)
 LWT (GPM)
 PRESSURE (FT WC)
 EWT (°F)
 LWT (°F)
 FLOW RATE (GPM)
 PRESSURE (FT WC)
 PRESSURE (°F)
 DROP (FT WC)
 MCA (A)
 MOCP (A)
 WEIGHT (LBS)
 NOTES

 95
 100
 120
 123.0
 6.0
 60
 44
 142.0
 6.0
 197
 250
 480
 3
 60
 8255
MODEL NUMBER MULTISTACK MS030(x3) MECHANICAL ROOM MODULAR 95 100 120

	PUMP SCHEDULE															
					OPERATING DATA								ELE	ECTRICAL DA	TA	
						HEAD	EFFICIEN		DISCHARGE	IMPELLER						1
					FLOW	(FT	CY	SUCTION SIZE	SIZE	SIZE	MOTOR	MOTOR				
TAG	MANUFACTURER	MODEL NUMBER	SERVING	TYPE	(GPM)	WC)	(%)	(IN)	(IN)	(IN)	RPM	(HP)	V	PH	HZ	NOTES
P-1	BELL & GOSSETT	2.5x2.5x9.5C	HOT WATER LOOP	VERTICAL INLINE	170.0	45	60.8	2.5	2.5	8.250	1600	5	480	3	60	
P-2	BELL & GOSSETT	2.5x2.5x9.5C	HOT WATER LOOP	VERTICAL INLINE	170.0	45	60.8	2.5	2.5	8.250	1600	5	480	3	60	
P-3	BELL & GOSSETT	2.5x2.5x7B	CHILLED WATER LOOP	VERTICAL INLINE	180.0	80	64.7	2.5	2.5	5.375	3334	7.5	480	3	60	
P-4	BELL & GOSSETT	2.5x2.5x7B	CHILLED WATER LOOP	VERTICAL INLINE	180.0	80	64.7	2.5	2.5	5.375	3334	7.5	480	3	60	
P-5	BELL & GOSSETT	2.5x2.5x7	CONDENSER WATER LOOP	VERTICAL INLINE	299.0	90	65.6	2.5	2.5	6.125	3600	15	480	3	60	
P-6	BELL & GOSSETT	2.5x2.5x7	CONDENSER WATER LOOP	VERTICAL INLINE	299.0	90	65.6	2.5	2.5	6.125	3600	15	480	3	60	

HOT WATER UNIT HEATER SCHEDULE																	
						AIF	AIR HYDRONIC HEATING COIL ELECTRICAL D			ELECTRICAL DA	TA				·		
					TOTAL	AIR		FLOW		WATER PRESSURE			SE	RVIC	E		I
					CAPACITY	FLOW	EAT	RATE	EWT	DROP	MCA	MOCP				WEIGHT	ı
TAG	MANUFACTURER	MODEL NUMBER	LOCATION	TYPE	(BTUH)	(CFM)	(°F)	(GPM)	(°F)	(FT WC)	(A)	(A)	V	PH	HZ	(LBS)	TON
UH-1	TRANE	S-A25	MECHANICAL ROOM EAST	CEILING	14,500	580	40	2.5	120	0.01	1.5	2.7	120	1	60	25	-
UH-2	TRANE	S-A25	MECHANICAL ROOM WEST	CEILING	14,500	580	40	2.5	120	0.01	1.5	2.7	120	1	60	25	

AIR SEPARATOR SCHEDULE												
MARK	MANUFACTURER	MODEL NUMBER	SERVING	LOCATION	INLET SIZE (IN)	OUTLET	FLOW RATE (GPM)	WATER PRESSURE DROP (FT WC)	DRAIN SIZE (IN)	WEIGHT (LBS)	NOTES	
AS-1	BELL & GOSSETT	RL-3F	HW LOOP	MECHANICAL ROOM	3	3	120	1.00	1	130	-	
AS-2	BELL & GOSSETT	RL-4F	CHW LOOP	MECHANICAL ROOM	4	4	170	1.00	1	170	-	
AS-3	BELL & GOSSETT	RL-5F	CD LOOP	MECHANICAL ROOM	5	5	299	1.00	1	220	-	

EXPANSION TANK SCHEDULE

SMOKE ZONE 2

									TANK		FILL				
					MODEL				VOLUME /	ACCEPTANCE	PRESSURE				
			TAG	MANUFACTURER	NUMBER	SERVING	LOCATION	TYPE	(GAL)	(GAL)	(PSIG)	(LBS)	NOTES		
			ET-1	BELL & GOSSETT	B-165LA	HW LOOP M	MECHANICAL ROOM	BLADDER	44	27	15	140	-		
			EJ/2	BELL & GOSSETT	B-35LA	CHW LOOP M	MECHANICAL ROOM	BLADDER	10	10/		65	-		
Y Y Y	Y Y Y	Y Y Y	γ ET-3	BELL & GÖSSETT	В-165LA ^ү	CD LOOP M	IECHANICAL ROOM	BLADDER	4 4	⁷ 27	^Y 15	⁷ 140	Y - }		
FIDE ALADM / OMOVE CONTROL MATRIX															
	FIRE ALARM / SMOKE CONTROL MATRIX														
	SMOKE DETECTOR SYSTEM ID		FLOW SWITCH SYSTEM	TEM DAMPER					EQUIPMENT						
EVENT ZONE	TAG(S)	DUCT SMOKE DETECTOR SYSTEM ID TAG(S)	ID TAG(S)	FAN SMOKE DAM	PERS OPEN	SMOKE	E DAMPERS CLOSE		ON						
SMOKE ZONE 1	SD1-01 THRU SD1-xx	DSD-1A, DSD-1B	FS1-1	D-SSF-1A,B,E,F,G, D-SE	F-1A,B,E,F,G, D-)-F2	-	SEF-1A,B,E,F	F,G & SSF-1A	,B,E,F,G, F-2*	Al	HU-1 & RTU	-4		
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GENERAL NOTES: A. THIS MATRIX IS ONLY FOR SMOKE CONTROL. REFER TO FIRE ALARM INPUT-OUTPUT MATRIX FOR COMPLETE OPERATION REQUIREMENTS.

B. DIV 28 SHALL PROVIDE EACH SMOKE SYSTEM FAN WITH FIRE ALARM CONTROL MODULE(S) TO ALLOW 'ON' AND 'OFF' CONTROL. C. DIV 23 SHALL PROVIDE EACH SMOKE SYSTEM FAN WITH PRESSURE DIFFERENTIAL SWITCH. DIV 28 SHALL PROVIDE A MONITOR MODULE FOR THE DIFFERENTIAL PRESSURE SWITCH TO CONFIRM OPERATION. FAILURE SHALL CAUSE SUPERVISE CONDITION FOR DEVICE AND ZONE WHEN IN SMOKE MANAGEMENT MODE.

D. PROVIDE EACH SMOKE SYSTEM FAN AND SMOKE CONTROL DAMPER WITH POWER DISCONNECTING MEANS (DIV 26), VOLTAGE SENSING RELAY (DIV 26), AND TO CONFIRM POWER AVAILABLE. LOSS OF POWER SHALL CAUSE SUPERVISE CONDITION FOR DEVICE/EQUIPMENT AND SUPERVISE CONDITION FOR DEVICE AND ZONE AT ANY TIME.

E. DIV 28 SHALL PROVIDE EACH CONTROL DAMPER WITH FIRE ALARM CONTROL MODULE, FAIL TO INDICATED POSITION. DIV 23 SHALL PROVIDE EACH CONTROL DAMPER WITH LIMIT SWITCH. DIV 28 SHALL PROVIDE MONITOR MODULE TO CONFIRM POSITION. FAILURE SHALL CAUSE SUPERVISE CONDITION FOR DEVICE AND ZONE WHEN IN SMOKE MANAGEMENT MODE.

B. DIV 28 SHALL PROVIDE MECH EQUIPMENT IN THE "OFF" COLUMN WITH FIRE ALARM CONTROL MODULE TO SHUT DOWN EQUIPMENT.

1. DIV 26 SHALL PROVIDE MECH EQUIPMENT IN THE "OFF" COLUMN WITH CURRENT SENSING RELAY AT LAST DISCONNECT MEANS, AND FIRE ALARM MONITOR MODULE TO CONFIRM CURRENT IS NOT FLOWING TO EQUIPMENT. PRESENCE OF CURRENT SHALL CAUSE TROUBLE CONDITION FOR EQUIPMENT AND ZONE DURING SMOKE CONTROL MODE. FIREFIGHTERS MANUAL OVERRIDE PANEL SHALL CAUSE SMOKE CONTROL SYSTEM OPERATION AS INDICATED FOR A SMOKE DETECTOR IN THE AFFECTED ZONE, BUT SHALL NOT CAUSE ALARM CONDITION TO OCCUR (SUPERVISORY CONDITION SHALL OCCUR IN MANUAL OR OFF MODES). MEASURE AND RECORD THE PRESSURE DIFFERENCE ACROSS EACH DOOR THAT SEPARATES THE SMOKE ZONE FROM ADJACENT ZONES. ADJUST SMOKE CONTROL FANS AS NECESSARY TO ACHIEVE THE FOLLOWING PRESSURE DIFFERENTIAL ACROSS THE BOUNDARIES: MIN PRESSURE DIFFERENTIAL: +0.05 IN. W.C. MAX PRESSURE DIFFERENTIAL: +0.08 IN. W.C.

K. DURING SMOKE CONTROL MODE, SMOKE FANS SHALL BE DELAYED 15 SECONDS SO THAT SMOKE CONTROL DAMPERS ARE SUFFICIENTLY OPEN TO PREVENT DEADHEADING OF FANS, TEST THIS OPERATION AND ADJUST DELAY AS REQUIRED.

*F-2 SHALL ALWAYS BE ON AND SET TO AIRFLOW ON SHEET M2.1.1, WHEN DSD-1A OR DSD-1B IS ACTIVATED FAN SHALL RAMP UP TO 100%